

# Proposed Rules

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This section of the FEDERAL REGISTER contains notices to the public of the proposed issuance of rules and regulations. The purpose of these notices is to give interested persons an opportunity to participate in the rule making prior to the adoption of the final rules.

## DEPARTMENT OF TRANSPORTATION

### Federal Aviation Administration

#### 14 CFR Part 25

[Docket No. FAA-2014-0240; Notice No. 25-14-02-SC]

#### Special Conditions: Embraer S.A.; Model EMB-550 Airplane; Stowage Compartment Fire Protection

**AGENCY:** Federal Aviation Administration (FAA), DOT.

**ACTION:** Notice of proposed special conditions.

**SUMMARY:** This action proposes special conditions for the Embraer S.A. Model EMB-550 airplane. This airplane will have a novel or unusual design feature when compared to the state of technology and design envisioned in the airworthiness standards for transport category airplanes. This design feature is the installation of a stowage compartment in the lavatory to store passenger belongings. The isolation of this stowage compartment from the main cabin could hinder the ability of the flight crew to detect a fire. The applicable airworthiness regulations do not contain adequate or appropriate safety standards for this design feature. These proposed special conditions contain the additional safety standards that the Administrator considers necessary to establish a level of safety equivalent to that established by the existing airworthiness standards.

**DATES:** Send your comments on or before May 14, 2014.

**ADDRESSES:** Send comments identified by docket number FAA-2014-0240 using any of the following methods:

- Federal eRegulations Portal: Go to <http://www.regulations.gov/> and follow the online instructions for sending your comments electronically.

- Mail: Send comments to Docket Operations, M-30, U.S. Department of Transportation (DOT), 1200 New Jersey Avenue SE., Room W12-140, West

Building Ground Floor, Washington, DC, 20590-0001.

- Hand Delivery or Courier: Take comments to Docket Operations in Room W12-140 of the West Building Ground Floor at 1200 New Jersey Avenue SE., Washington, DC, between 9 a.m. and 5 p.m., Monday through Friday, except federal holidays.

- Fax: Fax comments to Docket Operations at 202-493-2251.

**Privacy:** The FAA will post all comments it receives, without change, to <http://www.regulations.gov/>, including any personal information the commenter provides. Using the search function of the docket Web site, anyone can find and read the electronic form of all comments received into any FAA docket, including the name of the individual sending the comment (or signing the comment for an association, business, labor union, etc.). DOT's complete Privacy Act Statement can be found in the **Federal Register** published on April 11, 2000 (65 FR 19477-19478), as well as at <http://DocketsInfo.dot.gov/>.

**Docket:** Background documents or comments received may be read at <http://www.regulations.gov/> at any time. Follow the online instructions for accessing the docket or go to the Docket Operations in Room W12-140 of the West Building Ground Floor at 1200 New Jersey Avenue SE., Washington, DC, between 9 a.m. and 5 p.m., Monday through Friday, except federal holidays.

#### FOR FURTHER INFORMATION CONTACT:

Robert C. Jones, FAA, Propulsion and Mechanical Systems Branch, ANM-112, Transport Airplane Directorate, Aircraft Certification Service, 1601 Lind Avenue SW., Renton, Washington, 98057-3356; telephone (425) 227-1234; facsimile (425) 227-1149.

#### SUPPLEMENTARY INFORMATION:

##### Comments Invited

We invite interested people to take part in this rulemaking by sending written comments, data, or views. The most helpful comments reference a specific portion of the special conditions, explain the reason for any recommended change, and include supporting data.

We will consider all comments we receive on or before the closing date for comments. We may change these special conditions based on the comments we receive.

## Background

On May 14, 2009, Embraer S.A. applied for a type certificate for its new Model EMB-550 airplane. The Model EMB-550 airplane is the first of a new family of jet airplanes designed for corporate flight, fractional, charter, and private owner operations. The airplane has a configuration with low wing and T-tail empennage. The primary structure is metal with composite empennage and control surfaces. The Model EMB-550 airplane is designed for 8 passengers, with a maximum of 12 passengers. It is equipped with two Honeywell AS907-3-1E medium bypass ratio turbofan engines mounted on aft fuselage pylons. Each engine produces approximately 6,540 pounds of thrust for normal takeoff. The primary flight controls consist of hydraulically powered fly-by-wire elevators, ailerons, and rudders controlled by the pilot or copilot sidestick.

## Type Certification Basis

Under the provisions of 14 CFR 21.17, Embraer S.A. must show that the Model EMB-550 meets the applicable provisions of part 25, as amended by Amendments 25-1 through 25-127 thereto.

If the Administrator finds that the applicable airworthiness regulations (i.e., 14 CFR part 25) do not contain adequate or appropriate safety standards for the Model EMB-550 because of a novel or unusual design feature, special conditions are prescribed under the provisions of § 21.16.

Special conditions are initially applicable to the model for which they are issued. Should the type certificate for that model be amended later to include any other model that incorporates the same or similar novel or unusual design feature, the special conditions would also apply to the other model under § 21.101.

In addition to the applicable airworthiness regulations and special conditions, the Model EMB-550 must comply with the fuel vent and exhaust emission requirements of 14 CFR part 34 and the noise certification requirements of 14 CFR part 36, and the FAA must issue a finding of regulatory adequacy under § 611 of Public Law 92-574, the "Noise Control Act of 1972."

The FAA issues special conditions, as defined in 14 CFR 11.19, in accordance with § 11.38, and they become part of

the type-certification basis under § 21.17(a)(2).

### Novel or Unusual Design Features

The Model EMB-550 will incorporate the following novel or unusual design features: A stowage compartment located in the lavatory designed to store passenger belongings. The stowage compartment may be isolated from the main passenger cabin by two doors (lavatory and stowage compartment doors), which could hinder the ability to detect smoke or fire. The installation of a stowage compartment in the lavatory is a novel and unusual design feature for which the applicable airworthiness regulations do not contain adequate or appropriate safety standards.

### Discussion

Embraer did not classify the EMB-550 stowage compartment in the aft part of the pressurized area as a Class B cargo compartment due to its relatively small volume of 37 cubic feet. The compartment has a door that is intended to be closed in all phases of flight but can be opened to allow passenger access during flight. The lavatory door must be kept open for takeoff and landing but will likely be kept closed in all other phases of flight.

Due to the facts that the stowage compartment is not classified as a Class B cargo compartment and may be isolated from the main cabin by two doors during flight, and considering that it will be used to store passenger belongings, existing requirements for stowage compartments are not adequate to address fire protection concerns. The isolation characteristics and the possibility of storing items that may start a fire create the potential for an undetected fire event.

Additional safety precautions are required to avoid a situation where a fire condition remains undetected in an isolated stowage compartment. The proposed additional safety standards in the stowage compartment compensate for the increased risk of an undetected fire.

### Applicability

As discussed above, these special conditions are applicable to the Embraer Model EMB-550. Should Embraer S.A. apply at a later date for a change to the type certificate to include another model incorporating the same novel or unusual design feature, the special conditions would apply to that model as well.

### Conclusion

This action affects only certain novel or unusual design features on one model

of airplanes. It is not a rule of general applicability.

### List of Subjects in 14 CFR Part 25

Aircraft, Aviation safety, Reporting and recordkeeping requirements.

The authority citation for these special conditions is as follows:

**Authority:** 49 U.S.C. 106(g), 40113, 44701, 44702, 44704.

### The Proposed Special Conditions

Accordingly, the Federal Aviation Administration (FAA) proposes the following special conditions as part of the type certification basis for Embraer S.A. Model EMB-550.

#### 1. Stowage Compartment Fire Protection.

a. A means for fire detection that meets the provisions of § 25.858 is required regardless of the fact that the compartment is not classified as a cargo compartment per § 25.857 (only a "stowage" compartment). A visual and audible indication of smoke detection that clearly identifies that smoke has been detected in the stowage compartment must be provided to the flight or cabin crew.

b. In addition to the requirements of § 25.851, at least one hand-held or manually-activated compartment fire extinguisher appropriate to the kinds of fires likely to occur and, if applicable, associated protective breathing equipment must be provided in the lavatory.

c. Sufficient access must be provided to enable a crew member to effectively reach any part of the stowage compartment with the content of a hand-held fire extinguisher.

d. When the access provisions are being used, no hazardous quantity of smoke, flames, or extinguishing agent will enter any compartment occupied by the crew or passengers.

e. A liner must be provided that meets the requirements of § 25.855 at Amendment 25-60 for a Class B cargo compartment unless it can be shown that the material used to construct the stowage compartment meets the flammability requirements by a 60-second vertical test in lieu of 12-second vertical test and by presenting past test results of typical panels that meet the 45-degree flame penetration test.

Issued in Renton, Washington, on April 8, 2014.

**John P. Piccola,**

*Acting Manager, Transport Airplane Directorate, Aircraft Certification Service.*

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## DEPARTMENT OF TRANSPORTATION

### Federal Aviation Administration

#### 14 CFR Part 39

[Docket No. FAA-2014-0227; Directorate Identifier 2013-NM-211-AD]

RIN 2120-AA64

### Airworthiness Directives; Lockheed Martin Corporation/Lockheed Martin Aeronautics Company Airplanes

**AGENCY:** Federal Aviation Administration (FAA), DOT.

**ACTION:** Notice of proposed rulemaking (NPRM).

**SUMMARY:** We propose to supersede Airworthiness Directive (AD) 95-26-11, which applies to all Lockheed Martin Corporation/Lockheed Martin Aeronautics Company Model L-1011 series airplanes. AD 95-26-11 currently requires inspections to detect cracking of the fittings that attach the aft pressure bulkhead to the fuselage stringers, inspections to detect cracking of the fittings and of the splice tab of the aft pressure bulkhead, and corrective actions if necessary. Since we issued AD 95-26-11, we have determined that the fittings at stringer attachments to the upper region of the aft pressure bulkhead are subject to widespread fatigue damage (WFD), which could result in cracking in the aft pressure bulkhead. This proposed AD would reduce the compliance time; add inspections for cracking of certain aft fuselage skin panels; add a structural modification; and also add a post modification inspection program. We are proposing this AD to prevent simultaneous failure of multiple stringer end fittings through fatigue cracking at the aft pressure bulkhead, which could lead to rapid decompression of the airplane.

**DATES:** We must receive comments on this proposed AD by May 29, 2014.

**ADDRESSES:** You may send comments, using the procedures found in 14 CFR 11.43 and 11.45, by any of the following methods:

- Federal eRulemaking Portal: Go to <http://www.regulations.gov>. Follow the instructions for submitting comments.

- Fax: 202-493-2251.

- Mail: U.S. Department of Transportation, Docket Operations, M-30, West Building Ground Floor, Room W12-140, 1200 New Jersey Avenue SE., Washington, DC 20590.

- Hand Delivery: Deliver to Mail address above between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays.